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锐镭激光
RUILEI LASER

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INNOVATION NEVER STOPS ADVANTAGE KEEPS LEADING

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RUILEI
LASER



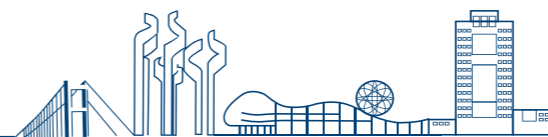
锐雷激光
RUILEI LASER





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COMPANY PROFILE 公司简介

昆山锐镭精密激光是一家致力于工业激光技术应用及成套非标激光加工装备系统的研发、生产和销售服务于一体的自主创新型高新技术企业，是国内知名的激光加工设备生产商。

Kunshan Rui Lei Precision Laser is a dedicated industrial laser technology application and complete sets of non-standard laser processing equipment system research and development, production and sales service in one of the independent innovative high-tech enterprises, is a well-known domestic laser processing equipment manufacturers.

经过近十年的努力，创立了“锐镭激光”品牌，主要从事激光打标机、激光焊接机、激光切割机、激光雕刻机、激光打孔机、激光清洗机、激光热处理机和激光非标自动化解决方案的研发、生产、营销和服务。努力为3C电子行业、钣金行业、汽车部件、智能家居等做非标定制加工设备，给客户带来更高效、更优质的综合解决方案。在工业领域为世界各地的客户提供激光加工设备、服务和客户化的解决方案，实现客户的潜在增长，持续为客户创造长期价值。

After nearly ten years of efforts, we have created the brand of "RULEI Laser", which is mainly engaged in the research and development, production, marketing and service of laser marking machine, laser welding machine, laser cutting machine, laser engraving machine, laser

punching machine, laser cleaning machine, laser thermal processor and laser non-standard automation solutions. Strive to do non-standard customized processing equipment for 3C electronics industry, sheet metal industry, auto parts, smart home, etc., to bring customers more efficient and better integrated solutions. In the industrial field, we provide laser processing equipment, services and customized solutions to customers around the world to realize the potential growth of customers and continue to create long-term value for customers.

锐镭激光公司秉承“一切为了更好的客户体验”的经营理念，以强有力的技术力量和品牌战略，赢得了全球客户的信赖与支持。我们的梦想是借助中国制造到中国创造的产业升级中，通过精益求精、创新产品，专注于工业激光设备行业发展，争做激光行业受人尊敬的科技企业。

Adhering to the business philosophy of "All for better customer experience", the company has won the trust and support of global customers with strong technical strength and brand strategy. Our dream is to use made in China to create industrial upgrading in China, through excellence, innovative products, focus on the development of industrial laser equipment industry, laser industry respected technology enterprises.



SERVICE ADVANTAGES 服务优势

- 服务方式** 针对客户的不同需要，灵活调整服务方式，开展一对一和一对多等培训课程。
Flexibly adjust service providers according to different needs of customers To carry out one-to-one and one-to-many training courses.
- 技术支持** 精密焊接/打标自动化、智能化，并提供相关的技术咨询，包括配件选用等。
Precision welding/marketing automation, intelligent, and improve For related technical advice, including accessories selection.
- 24小时服务** 24小时快速到位服务，7*24小时服务模式。
24 hours fast service, 7*24 hours service mode.
- 合理报价** 同等配置，合理报价，最具性价比。
The same configuration, reasonable quotation, the most cost-effective.
- 售前服务** 协助客户进行产品选择、产能评估、工厂布置。
Assist customers in product selection, capacity evaluation, plant layout.
- 人员培训** 定期提供客户到厂培训，包括机器操作保养、简易编程。
Provide regular customer training, including machine operation and maintenance, simple programming.
- 品质保证系统** 对质量与精度的高要求，是锐镭精神保证生产制造高性能产品的基础保证。
The high demand for quality and precision is the basic guarantee for the production of high-performance products in the spirit of Sharpness.
- 交期短质保长** 最快7天交货，快速响应客户交期要求，质保一年，终身维修。
The fastest delivery in 7 days, quick response to customer delivery requirements, one year warranty, lifelong maintenance.

SCOPE OF SERVICES

服务范围

我们的核心产品是“系统方案、无忧服务”，我们产品的应用领域涉及手机、电脑、钣金加工、金属加工、电子、印刷、包装、皮革、服装、工业面料、广告、工艺、家具、装饰、医疗器械等众多行业。

Our core product is "system solution, worry-free service", our products are applied to mobile phones, computers, sheet metal processing, metal processing, electronics, printing, packaging, leather, clothing, industrial fabrics, advertising, technology, furniture, decoration, medical equipment and many other industries.

PRODUCT APPLICATION

产品应用

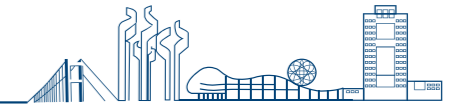
广泛应用于五金制品、工具配件、精密器械、眼镜钟表、首饰饰品、汽车配件、塑胶按键、建材、食品、药品、电子元器件、集成电路（IC）、电工电器、手机通讯、PVC管材、卫生洁具等行业。

Widely used in hardware products, tools and accessories, precision instruments, glasses and watches, jewelry, auto parts, plastic keys, building materials, food, medicine, electronic components, integrated circuit (IC), electrical appliances, mobile phone communication, PVC pipe, sanitary ware and other industries.



HONOR QUALIFICATION

荣誉资质



PRODUCT INTRODUCTION

产品介绍

LASER MARKING MACHINE

激光打标机

▶ 技术参数 Technical Parameter

机器型号 Machine Model	RL-MF10/20/30/50
功率 power	10W/20W/30W/50W
激光头 laser pickup	wobble 扫描头
激光波长 Laser Line	1064nm
重复频率 repetition frequency	0-100KHZ
光速质量 Lightspeed mass	< 2
打标范围 Marking Scope	110mm*110mm(可选配)、160*160mm、200*200mm、300*300mm
雕刻深度 carving depth	≤0.4mm
雕刻线速 markingspeed	≤7000mm/s
最小线宽 minimum linewidth	0.05mm
最小字符 Minimum character	0.15mm
重复精度 repeated accuracy	±0.001mm
供电电源 power supply	220V/50Hz
整机耗电 Total power	500W
外形尺寸(L*W*H)	800*650*1500mm
操作系统 operating system	Win98/Win2000/WinXP
冷却方式 type of cooling	内置水冷(built-in cooling)
控制接口 control interface	标准USB
文件格式 document format	Windows操作系统字库的所有字体/字型
激光器类型 Laser type	脉冲或连续(Pulse or continuous)



产品介绍 Product Introduction

光纤激光打标机是我公司使用国际先进技术研制成的现代化激光打标机，光纤激光器是用掺镱双包层光纤作为激光介质，被高功率多模激光二极管泵浦产生激光。采用光纤激光器输出激光，再通过计算机控制高速扫描振镜偏转改变激光束光路实现自动打标。

The fiber laser marking machine is a modern laser marking machine developed by our company using international advanced technology. The fiber laser uses ytterbium-doped double clad fiber as the laser medium and is pumped by a high-power multi-mode laser diode to produce laser. The laser is output by fiber laser, and then the laser beam path is changed by computer controlled by high-speed scanning galvanometer to realize automatic marking.

产品特点 Product Features

- 01** 成本低廉，整机耗电功率低，1KW/H。
Low cost, low power consumption, 1KW/H.
- 02** 掺镱双包层光纤，最高达100000小时使用寿命，终生免维护，无耗材。
Ytterbium-doped double clad fiber, up to 100,000 hours of service life, lifetime maintenance free, no consumables.
- 03** 电光转换效率高，工作效率高，性能稳定，可24小时连续工作。
High electro-optic conversion efficiency, high working efficiency, stable performance, 24 hours continuous work.
- 04** 激光光斑小，标记线条精细。
The laser spot is small and the marking line is fine.
- 05** 图形变更和设计灵活。
Graphic changes and design flexibility.
- 06** 整机功耗低，采用一体式风冷系统，体积小，可随意搬动，使用灵活。
The whole machine has low power consumption, adopts one-rest air cooling system, small size, can be moved at will, and the use is flexible.

产品应用 Product Application

光纤激光打标机应用广泛，如汽车配件、电子通、五金、首饰、芯片制造、轻工产品、医药食品包装业。是提高效率、节省能耗、追求品质的必需设备。

Fiber laser marking machine is widely used, such as auto parts, electronics, hardware, jewelry, chip manufacturing, light industrial products, medicine and food packaging industry. It is the necessary equipment to improve efficiency, save energy consumption and pursue quality.

QCW AUTOMATIC WELDING MACHINE

QCW自动焊接机



▶ 技术参数 Technical Parameter

机器型号 Machine Model	RL-WQ 80/100/150/300/450
激光器功率 Laser power	80W/100W/150W/300W/450W
激光波长 Laser Line	1064nm
工作频率 operating frequency	1-1500HZ
焊接深度 depth of weld	≤0.5-1mm
工作台行程 table travel	300*300mm (可选)
X/Y轴重复定位精度 X/Y axis repeated positioning accuracy	± 0.03mm
控制系统 control system	PC
监控系统 monitoring system	红光/CCD
整机耗电功率 Total power	1KW/1.5KW
电力需求 power demand	220V/5A 50/60HZ 220V/8A 50/60HZ
外形尺寸(L*W*H)	980*1150*1350mm

产品介绍 Product Introduction

该激光器电光转换效率高，寿命长，寿命可达10万小时，是当前世界上低耗高能最优的光纤激光器焊接机。可以根据客户需求自由组合各种配置来满足要求。光纤激光器按种类分连续（CW）光纤激光器和准连续（QCW）光纤激光器，连续光纤激光器主要是根据设定功率连续焊接工作；准连续光纤激光器又称为长脉冲光纤激光器，能产生ms量级的脉冲，占空比为10%，这使得脉冲光具有比连续光高十倍以上的峰值功率，对于深度焊接等应用来说非常有利。

The laser electro-optical conversion efficiency is high, long life, life of up to 100,000 hours, is currently the world's best low-energy fiber laser welding machine. Various configurations can be freely combined according to customer needs to meet requirements. Fiber lasers are divided into continuous (CW) fiber lasers and quasi-continuous (QCW) fiber lasers according to types, and continuous fiber lasers are mainly welded continuously according to the set power; Quasi-continuous fiber lasers, also known as long-pulse fiber lasers, can produce pulses on the order of ms with a duty cycle of 10%, which gives pulsed light a peak power more than ten times higher than continuous light, which is very advantageous for applications such as deep welding.

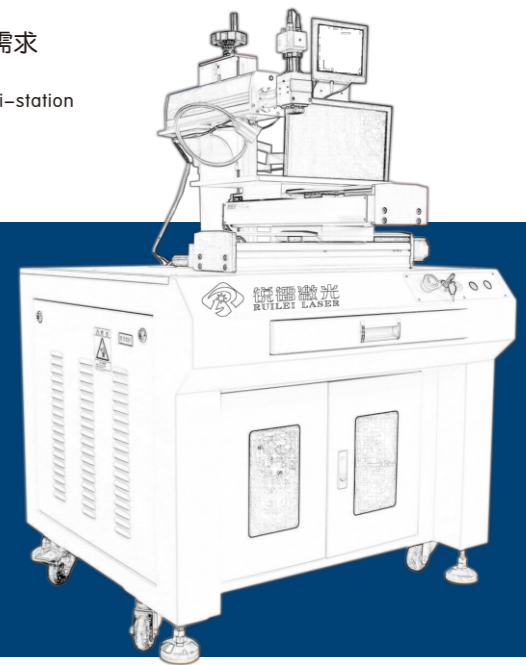
产品特点 Product Features

- 01 体积小、寿命长、稳定性好、免维护特点。
Small size, long life, good stability, maintenance-free features.
- 02 具备效率高，热影响区小、焊点美观牢固等特点。
It has the characteristics of high efficiency, small heat affected zone, beautiful solder joint and so on.
- 03 能焊接难熔材料，可进行微小零部件的精密焊接，各种不同的点焊。
It can weld refractory materials, precision welding of small parts, and various spot welding.
- 04 加工后的焊点极其精细、平整、美观。
The solder joint after processing is extremely fine, smooth and beautiful.
- 05 采用专属技术，能实现多光束分时加工及多工位加工，为更贴合客户需求的焊接提供了条件。
Using proprietary technology, it can realize multi-beam time-sharing processing and multi-station processing, which provides conditions for welding more suitable for customer needs.

产品应用 Product Application

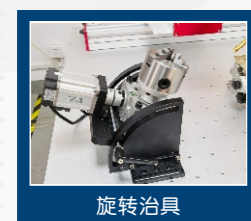
广泛应用于高精度加工，如电池、电子、通讯和五金等行业大批量生产企业的离线/在线焊接。

Widely used in high precision machining, such as battery, electronics, communications and hardware industry mass production enterprises offline/online welding.

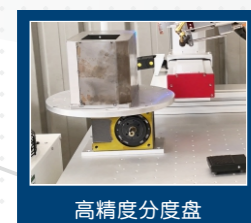


OPTICAL FIBER CONTINUOUS WELDING MACHINE

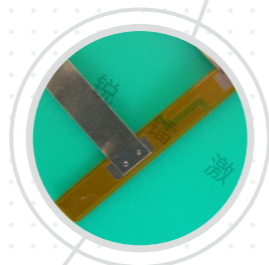
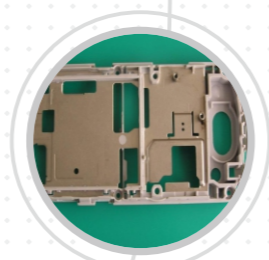
光纤连续焊接机



旋转治具



高精度分度盘



► 技术参数 Technical Parameter

机器型号 Machine Model	RL-RB 系列500/750/1000/1500/2000/3000/4000
激光器 Laser	光纤激光器 (fiber laser)
重复定位精度 repeated positioning accuracy	± 0.01mm
工作台面 table top	300*440mm (可选配optional)
焊斑直径 Spot diameter	0.2-5mm (可调adjustable)
焊接深度 depth of weld	0.2-5mm
焊接宽度 Welding width	0.2-4mm
额定激光功率 Rated laser power	500W、750W、1000W、1500W、2000W、3000W、4000W
整机功率 Overall power	8KW
冷却系统 cooling system	水冷(water-cooling)
供电 power supply	380V 50 Hz /60Hz

产品介绍 Product Introduction

该激光器电光转换效率高，寿命长，寿命可达10万小时，是当前世界上低耗高能最优的光纤激光器焊接机。可以根据客户需求自由组合各种配置来满足要求。光纤激光器按种类分连续（CW）光纤激光器和准连续（QCW）光纤激光器，连续光纤激光器主要是根据设定功率连续焊接工作；准连续光纤激光器又称为长脉冲光纤激光器，能产生ms量级的脉冲，占空比为10%，这使得脉冲光具有比连续光高十倍以上的峰值功率，对于深度焊接等应用来说非常有利。

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产品特点 Product Features

- 01 采用光纤激光器，输出功率稳定，焊点均匀，提升产品档次。
Using fiber laser, stable output power, uniform solder joint, improve product grade.
- 02 输出波形可根据焊接材料、形状等任意设定，4轴联动可焊接异形及复杂图形。
The output waveform can be arbitrarily set according to the welding material, shape, etc., and the 4-axis linkage can be welded with special-shaped and complex shapes.
- 03 专业焊接操作软件，CCD视觉采点编程，操作简单，定位精度高，六轴，五轴，四轴操作系统均可。输出功率高，能量大，光束模式好。
Professional welding operation software, CCD vision programming, simple operation, high positioning accuracy, six-axis, five-axis, four-axis operating system can be used. High output power, large energy, good beam mode.
- 04 光纤焊接，可根据产品的特性，进行任一形状的焊接。
Optical fiber welding can be welded in any shape according to the characteristics of the product.
- 05 电光转换率高，功耗低，节约用电。焊接效率高，比普通激光焊接机效率快近5倍，利于提高生产效率。
High electro-optic conversion rate, low power consumption, saving electricity. The welding efficiency is high, and the efficiency is nearly 5 times faster than that of ordinary laser welding machine, which is conducive to improving production efficiency.
- 06 超长的使用寿命，无灯管耗材，免维护，大大的节约维护成本。
Long service life, no lamp consumables, maintenance-free, greatly saving maintenance costs.

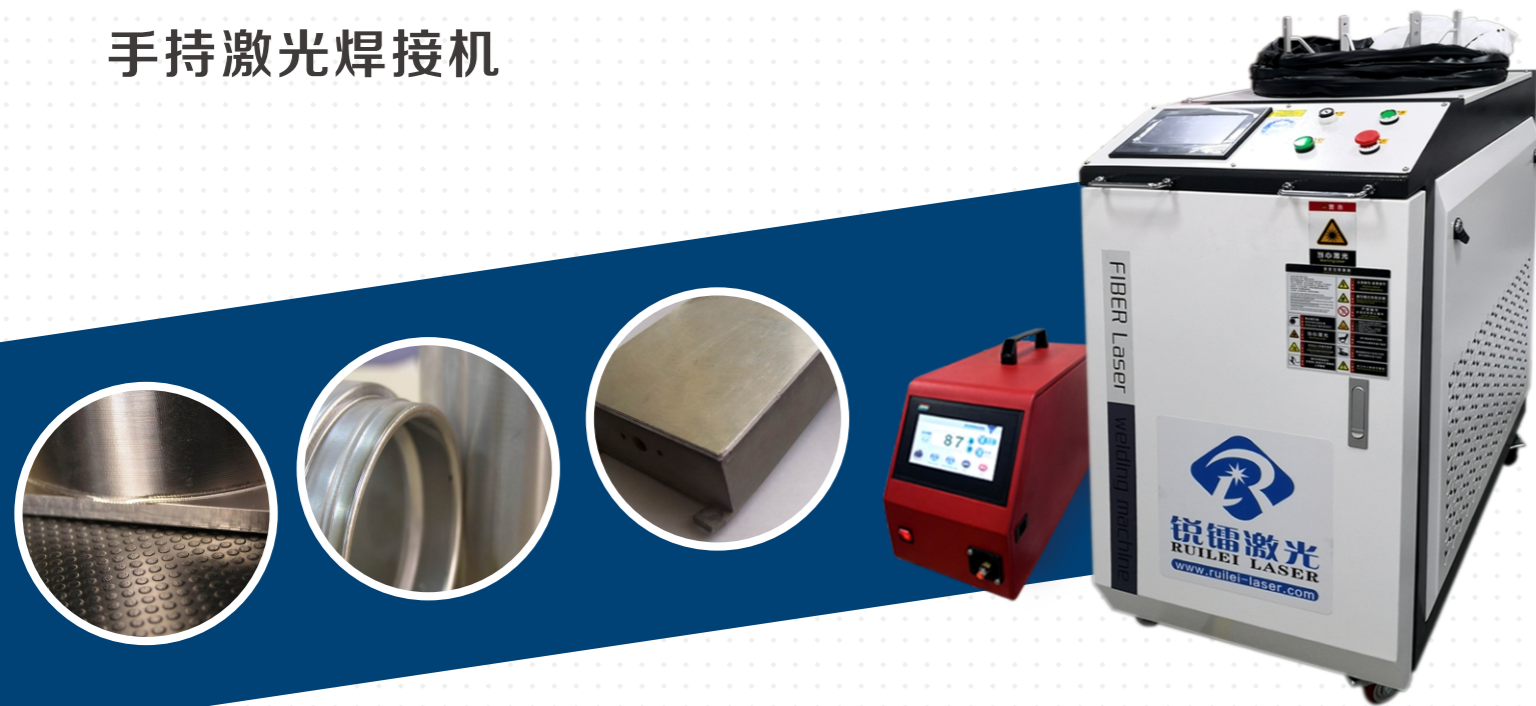
产品应用 Product Application

适用于对激光焊接要求较高且焊接形状复杂的工件，广泛应用于汽车行业、钣金行业，显象管电子枪、导弹探测器、手机震动马达、发动机火花塞、雷管引擎、汽车车灯和公路照明氙灯灯极的精密焊接等，特别是精密光电零件、传感器、电子无器件管脚等要求较高的行业。

Suitable for high laser welding requirements and welding complex shape of the workpiece, widely used in the automotive industry, sheet metal industry, picture tube electron gun, missile detector, mobile phone vibration motor, engine spark plug, detonator engine, car lights and highway lighting xenon lamp electrode precision welding, especially precision photoelectric parts, sensors, electronic devices without pins and other high requirements of the industry.

HAND HELD LASER WELDING MACHINE

手持激光焊接机



▶ 技术参数 Technical Parameter

机器型号 Machine Model	RL- SWF 1000/1500/2000
激光器 Laser	1000W、1500W、2000W 光纤激光器
激光头 laser pickup	wobble 焊接头
焊接材料厚 Welding material thickness	0.3-5mm
有效焊斑 Effective spot	0.2-5mm (可调)
自动同步送丝 Automatic synchronous wire feeding	标准送丝 0.6-1.6mm
机床运行温度 Machine operating temperature	0℃-40℃
环境相对湿度 Ambient relative humidity	< 85%
稳压电源 voltage-stabilized source	220V 50HZ 20A
制冷水箱 Refrigeration water tank	QBH 及激光器冷水

产品介绍 Product Introduction

手持式激光焊接机，采用最新一代光纤激光器，配置自主研发的 wobble 焊接头，填补激光设备行业手持式焊接的空白。产品涵盖手持焊接枪、激光器及自主研发控制系统，并设置多处安全警报及主动安全断电、断光设置。优化了光学和水冷的设计使得激光焊接机可以长时间稳定工作。

Handheld laser welding machine, using the latest generation of fiber laser, equipped with self-developed wobble welding head, fill the gap in the laser equipment industry handheld welding. Products cover hand-held welding guns, lasers and self-developed control systems, and set a number of safety alarms and active safety power off, light off Settings. Optimized optical and water-cooled design allows the laser welding machine to work stably for a long time.

产品特点 Product Features

- 01** 操作简单、焊缝美观、焊接速度快。
Simple operation, beautiful weld, fast welding speed.
- 02** 在 ≤5mm 不锈钢板、铁板、铝板、铜板等金属材料方面焊接，可完美取代传统氩弧焊、电焊工艺。
In the ≤5mm stainless steel plate, iron plate, aluminum plate, copper plate and other metal materials welding, can perfectly replace the traditional argon arc welding, electric welding process.
- 03** 自动送丝有控制部分提供参数设置，驱动部分在控制部分的控制下进行送丝驱动，送丝嘴部分将焊丝送到焊枪位置。具有滞后送丝和提前抽丝功能。既可以实现单机自动控制（内控），也可以接收上位机控制。既可以通过脚踏开关控制送丝和抽丝，也可以使用焊枪高频开关实现同步控制（高频进线、高频出线）。送丝速度 0-1000mm/min（一般可按照客户要求定制），送丝速度重复性误差在 ±5% 以内。具有连续送丝及断续送丝功能，且断续送丝频率及占空比可调。

The automatic wire feeding has a control part to provide parameter Settings, the driving part is controlled by the control part to drive the wire feeding, and the wire feeding nozzle part sends the welding wire to the welding gun position. It has the function of delay wire feeding and advance wire drawing. It can realize single machine automatic control (internal control), and can also receive host computer control. Both wire feeding and wire drawing can be controlled by foot switch, and synchronous control can be achieved by high frequency switch of welding torch (high frequency incoming line and high frequency outgoing line). The wire feeding speed is 0-1000mm/min (generally customized according to customer requirements), and the repeatability error of the wire feeding speed is within ±5%. It has the function of continuous wire feeding and intermittent wire feeding, and the intermittent wire feeding frequency and duty cycle can be adjusted.

产品应用 Product Application

可广泛应用于橱柜厨卫、楼梯电梯、货架、烤炉、不锈钢门窗护栏、钣金行业、不锈钢家居等行业复杂不规则的焊接工序。

Can be widely used in kitchen cabinets, stair elevators, shelves, ovens, stainless steel doors and Windows guardrail, sheet metal industry, stainless steel home and other industries complex irregular welding process.

FIXED LASER WELDING MACHINE

固定激光焊接机



产品介绍 Product Introduction

这是一款固定式焊接机，专门用于配合机器人、非标自动化、旋转治具等各种治具的激光焊接工作台。
This is a fixed welding machine, specially used for laser welding table with robot, non-standard automation, rotary fixture and other fixtures.

产品特点 Product Features

- 01 操作简单，定位精度高。输出功率高，能量大，光束模式好。
Simple operation, high positioning accuracy. High output power, large energy, good beam mode.
- 02 光纤焊接，可根据产品的特性，进行任一形状的焊接。
Optical fiber welding can be welded in any shape according to the characteristics of the product.
- 03 可配合机器人、非标自动化、旋转治具等各种治具。
Can be used with robot, non-standard automation, rotary fixture and other fixtures.
- 04 电光转换率高，功耗低，节约用电。焊接效率高，比普通激光焊接机效率快近5倍，利于提高生产效率。
High electro-optic conversion rate, low power consumption, saving electricity. The welding efficiency is high, and the efficiency is nearly 5 times faster than that of ordinary laser welding machine, which is conducive to improving production efficiency.
- 05 超长的使用寿命，无灯管耗材，免维护，大大的节约维护成本。
Long service life, no lamp consumables, maintenance-free, greatly saving maintenance costs.

► 技术参数 Technical Parameter

机器型号 Machine Model	RL- SWF 1000/1500/2000
激光器 Laser	1000W、1500W、2000W 光纤激光器
激光头 laser pickup	wobble 焊接头
焊接材料厚 Welding material thickness	0.3-5mm
有效焊斑 Effective spot	0.2-5mm (可调)
自动同步添丝 Automatic synchronous wire feeding	标准添丝 0.6-1.6mm
机床运行温度 Machine operating temperature	0°C-40°C
环境相对湿度 Ambient relative humidity	< 85%
稳压电源 voltage-stabilized source	220V 50HZ 20A
制冷水箱 Refrigeration water tank	QBH 及激光器冷水机

产品应用 Product Application

广泛应用于汽车行业、钣金行业，显象管电子枪、导弹探测器、手机震动马达、发动机火花塞、雷管引擎、汽车车灯和公路照明氙灯灯极的精密焊接等，特别是精密光电零件、传感器、电子无器件管脚等要求较高的行业。

Widely used in the automotive industry, sheet metal industry, picture tube electron gun, missile detector, mobile phone vibration motor, engine spark plug, detonator engine, automotive lights and highway lighting xenon lamp electrode precision welding, especially precision photoelectric parts, sensors, electronic devices without pins and other high requirements of the industry.

ROBOT LASER CUTTING AND WELDING MACHINE

机器人激光切割焊接机



▶ 技术参数 Technical Parameter

机器型号 Machine Model	RL-RB 系列500/750/1000/1500/2000/3000/4000
激光波长 Laser Line	1064nm
激光器 Laser	Nd:YAG光纤传导激光器 / 纯光纤激光器 (YAG fiber conduction laser/pure fiber laser)
最大单脉冲能量 Maximum monopulse energy	50J-200J
重复定位精度 Accuracy of repeated positioning	0.05mm
臂展长度 Length of arm	700mm/1200mm/1440mm/1600mm (可选配 optional)
负载质量 Quality of load	3KG/5KG/10KG/20KG (可选配 optional)
最小焊斑直径 Minimum spot diameter	0.2mm
额定激光功率 Rated laser power	500W、750W、1000W、1500W、2000W、3000W、4000W
整机功率 Total power	20KW
光纤输出数量 Number of fiber outputs	标配光纤1路, 也可定制多路。(Standard fiber 1 channel, can also be customized multi-channel.)
冷却系统 cooling system	水冷 (water-cooling)
供电 power supply	380V ± 10%/50Hz
外形尺寸 (L*W*H)	1800*1100*1500mm
重量 weight	500kg

产品介绍 Product Introduction

RL-RB600光纤传输激光焊接机在激光耦合到光纤后传输到焊接工位, 经光纤输出聚焦后, 对焊件进行多面或多点焊接。具有单点能量稳定, 光束质量好, 光斑均匀细小, 安装移动方便等优点。另外, 对接大型模具、难以接近的精密部位, 实行柔性传输非接触焊接, 具有更大的灵活性。由于机器人反应灵敏、准确, 与激光器有效配合, 通过光纤传输后使每个焊点效果更趋向一致, 并能保证焊接焦点位置使焊缝质量明显得到提高, 保证焊接质量稳定。

RL-RB600 fiber transmission laser welding machine in the laser coupling to the optical fiber after transmission to the welding station, after the optical fiber output focus, multi-surface or multi-point welding of the welder. It has the advantages of single point energy stability, good beam quality, uniform and small spot, easy installation and movement. In addition, flexible transmission non-contact welding is implemented for large molds and difficult to access precision parts, which has greater flexibility. Because the robot is sensitive and accurate, and effectively cooperate with the laser, the effect of each solder joint is more consistent after transmission through the fiber, and the welding focus position can be guaranteed to improve the quality of the weld seam, and ensure the stability of the welding quality.

产品特点 Product Features

- 01** 本系统由一台(或多路)光纤激光器和一个机器人组成集成。
The system is composed of one (or multiple) fiber laser and a robot.
- 02** 激光聚焦头安装在机器人的腕部。这种配置能够方便地完成形状复杂的板材零件焊接。机器人运动的编程通过示教功能或程序完成, 自动给出焊接路径。
The laser focusing head is mounted on the wrist of the robot. This configuration can easily complete the welding of plate parts with complex shapes. The programming of the robot motion is completed through the teaching function or program, and the welding path is automatically given.
- 03** 适合于大幅面空间焊接, 可以任意空间焊接, 不局限于平面焊接。
Suitable for large space welding, can be any space welding, not limited to plane welding.
- 04** 重复精度高, 可以多次重复无误的焊接。
High repetition precision, can be repeated many times without error welding.
- 05** 集成了装夹装置、光路安全密封装置、烟气抽取装置等, 所有这些都按照欧洲标准设计制造。可选用专用的传感器系统(焊缝跟踪、过程传感器)以保证过程在线控制的可靠性和一致性。
Integrated clamping device, light path safety sealing device, flue gas extraction device, etc., all of which are designed and manufactured according to European standards. Special sensor system (weld tracking, process sensor) can be used to ensure the reliability and consistency of the process online control.
- 06** 有些地方可以代替人工操作, 适用于一些高难度的空间焊接。
Some places can replace manual operation, suitable for some difficult space welding.
- 07** 本系统特别适用于焊接质量和一致性要求高、生产规模大、几何形状复杂的零部件焊接。
This system is especially suitable for welding parts with high quality and consistency requirements, large production scale and complex geometric shapes.
- 08** 本系统易与集成到已有的生产线之中, 对已有焊接机器人的焊接生产线进行升级改造。
The system is easy to be integrated into the existing production line, and the welding production line of the existing welding robot is upgraded.

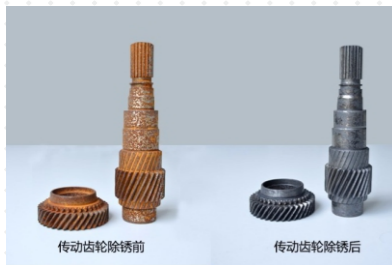
产品应用 Product Application

现广泛应用的领域有手机外壳, 笔记本电脑外壳, 光纤连接器、电子元器件、军工制造、高级仪器仪表、医疗器械、五金机械、家用电器等精密零件的焊接。

Now widely used in the field of mobile phone shell, laptop computer shell, optical fiber connector, electronic components, military manufacturing, advanced instrumentation, medical equipment, hardware machinery, household appliances and other precision parts welding.

LASER CLEANING MACHINE

激光清洗机



传动齿轮除锈前
Drive gear before rust removal

传动齿轮除锈后
Drive gear after rust removal



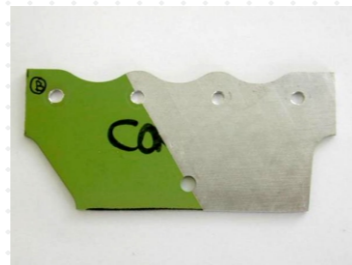
除锈前
Before rust removal

除锈后
After rust removal



清洗前
Before cleaning

清洗后
After cleaning



剥漆或去除包覆层
To strip paint or remove cladding

产品介绍 Product Introduction

我公司引进国外先进技术，自主研发，采用整体式全光纤激光器（是目前世界上最先进的激光器）设计，是国内首家整体式全光纤激光器开发商。激光清洗技术是利用激光的表面除污能力，利用光纤传输引导，使清洗可以在不同位置，清洗不同部位的一种高效、绿色，先进的清洗技术，相对于化学清洗，其不需任何化学药剂和清洗液；相对于机械清洗，其无研磨、无应力、无耗材，对基体损伤极小（文物字画清洗）。激光清洗方式一般主要分为手持激光清洗系统、半自动化激光清洗系统及全自动化激光清洗系统。三者主要区别在于激光扫描头运动轨迹是由人手控制还是由机械手/机床控制。

Our company introduces foreign advanced technology, independent research and development, using the whole all-fiber laser (is the world's most advanced laser) design, is the first domestic integral all-fiber laser developer. Laser cleaning technology is the use of laser surface decontamination ability, the use of optical fiber transmission guidance, so that the cleaning can be in different locations, cleaning different parts of a kind of efficient, green, advanced cleaning technology, compared with chemical cleaning, it does not need any chemical agents and cleaning solution; Compared with mechanical cleaning, it has no grinding, no stress, no consumables, and minimal damage to the matrix (cleaning of cultural relics). Laser cleaning methods are generally divided into handheld laser cleaning systems, semi-automated laser cleaning systems and fully automated laser cleaning systems. The main difference between the three is whether the motion trajectory of the laser scanning head is controlled by the human hand or by the manipulator/machine tool.

产品特点 Product Features

- 01** 模具清洗：无需介质消耗，节省磨料的费用，非机械接触，不损伤模具，无需预热处理，对冷热模具均可清洗，环保，不产生次级污染物。
Mold cleaning: no medium consumption, save the cost of abrasive, non-mechanical contact, no damage to the mold, no preheating treatment, hot and cold mold can be cleaned, environmental protection, no secondary pollutants.
- 02** 剥漆或去除包覆层：操作简便，迅速架设，无需媒介、无尘、无需化学试剂且无需清理，多功能手持式和人性化设计激光头，便于实现自动化，提供机器人激光头。
Stripping paint or removing coating layer: easy to operate, quickly set up, no media, no dust, no chemical reagents and no cleaning, multifunctional handheld and humanized design of laser head, easy to realize automation, provide robotic laser head.
- 03** 零件涂层前的预处理：对基材无损伤，无需介质、无尘、无化学药品、无需清理，精密性和均匀度高。
Parts before coating pretreatment: no damage to the substrate, no medium, no dust, no chemicals, no cleaning, high precision and uniformity.
- 04** 清除氧化物、油污、油渍及产品的残留物：清除速度快，可达80 cm² / sec，打造无氧化物的金属表面，环保，无次级污染，无需化学药剂，无残留需清除，对不吸收激光的污染物（如油渍、油脂、蜡脱模剂等）同样有效。
Removal of oxides, oil stains, oil stains and product residues: fast removal speed, up to 80 cm² / sec, create oxide free metal surface, environmental protection, no secondary pollution, no chemical agents, no residue to be removed, and also effective for pollutants that do not absorb laser (such as oil stains, grease, wax release agents, etc.).

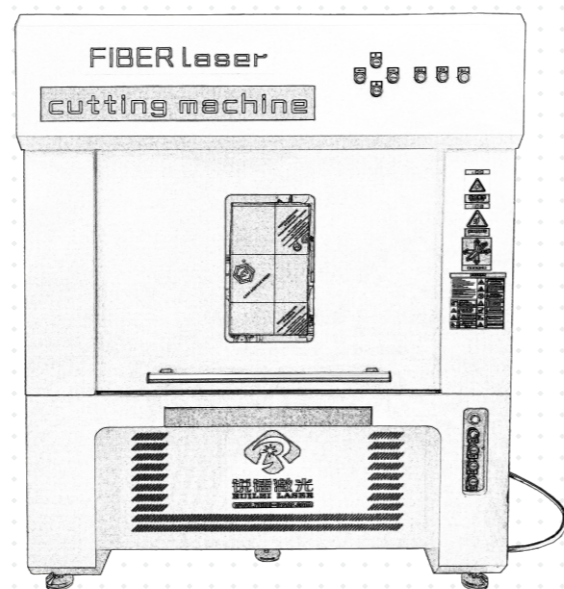
产品应用 Product Application

适用范围广（核管道清洗）；适用对象也比较广泛，除锈、除漆、除泥污、晶片表面处理；清洁度高（能清除纳米级以下污染微粒），该技术国际已应用于各领域（模具清洗，战机涂层清洗）。

Wide application range (nuclear pipeline cleaning); The applicable object is also relatively wide, rust removal, paint removal, dirt removal, chip surface treatment; High cleanliness (can remove nano-scale pollution particles), the international technology has been applied in various fields (mold cleaning, aircraft coating cleaning).

SMALL FORMAT LASER CUTTING MACHINE

小幅面激光切割机



▶ 技术参数 Technical Parameter

机器型号 Machine Model	RL- CY 0303/0606
激光器功率 Laser power	1500W/2000W/3000W/4000W/6000W
激光波长 Laser Line	1064nm
加工幅面 Width of processing	500*500mm
最大定位速度 Maximum positioning speed	15m/min
最大加速度 maximum acceleration	0.3G
X/Y轴定位精度 X/Y axis positioning accuracy	± 0.015mm
X/Y轴重复定位精度 X/Y axis repeat positioning accuracy	± 0.01mm
工作电压 working voltage	380v 50HZ
整机功率 Total power	< 20KW
机器重量 Machine weight	4000kg
外形尺寸 Boundary dimension	800*1000*1800mm
传动方式 Kind of drive	精密滚珠丝杆 (Precision ball screw)

产品介绍 Product Introduction

RL- CY主要用于切割0.5-6mm碳钢板, 0.5-5mm不锈钢板, 0.5-2mm铝合金板, 0.5-1mm铜板等金属材料, 切割速度及切割断面效果表现卓越。

RL-CY is mainly used for cutting 0.5-6mm carbon steel plate, 0.5-5mm stainless steel plate, 0.5-2mm aluminum alloy plate, 0.5-1mm copper plate and other metal materials, cutting speed and cutting section effect is excellent.

产品特点 Product Features

- 01 低成本方案, 投资成本少, 投资回报率快。
Low cost scheme, low investment cost, fast return on investment.
- 02 激光脉冲模式设计, 相比光纤在铝材切割上有更好的表现。
Laser pulse mode design has better performance than optical fiber in aluminum cutting.
- 03 体积小、精度高、可分板、可下料。
Small volume, high precision, can be divided board, can be the material.

产品应用 Product Application

广泛应用于金属切割、电气制造、电梯制造、仓储物流设备、厨具制造、工具加工等多种机械制造加工行业。

Widely used in metal cutting, electrical manufacturing, elevator manufacturing, warehousing logistics equipment, kitchenware manufacturing, tool processing and other mechanical manufacturing and processing industries.



PRECISION LASER CUTTING MACHINE

精密激光切割机



▶ 技术参数 Technical Parameter

机器型号 Machine Model	RL- Jm6060
加工幅面 Width of processing	600 × 600mm
视觉幅面 Visual width	600*490.5mm
视觉定位精度 Visual positioning accuracy	≤0.05mm
最大加速度 Maximum acceleration	1.5g
X/Y轴快速移动速度 X/Y axis fast movement speed	60m/min
X/Y轴有效行程 X/Y axis effective travel	600mm
X/Y轴定位精度 X/Y axis positioning accuracy	± 0.01mm
X/Y轴重复精度 X/Y axis repeat accuracy	± 0.005mm
Z轴行程 Z-axis stroke	100mm

PRECISION LASER CUTTING MACHINE

产品介绍 Product Introduction

本设备专业针对于高精密行业打造的小型高速激光切割机。采用日本THK精密直线导轨，定位精度高，磨损少；能长时间维持高精度，组装容易并具互换性。EtherCAT总线式的前数控系统(AheadTechs)，极大的提升了设备的灵活性、可扩展性。让智能工厂、设备互联成为可能。支持多种模式的轴螺距补偿，确保了机床的加工精度；支持零件加工统计与生产数量管理。

This equipment is specialized in high precision industry to create a small high-speed laser cutting machine. Japan THK precision linear guide, high positioning accuracy, less wear; Can maintain high precision for a long time, easy to assemble and interchangeable. EtherCAT bus-type front CNC system (AheadTechs) greatly improves the flexibility and scalability of the device. Make it possible to connect smart factories and equipment. Support a variety of modes of shaft pitch compensation to ensure the machining accuracy of the machine tool; Support parts processing statistics and production quantity management.

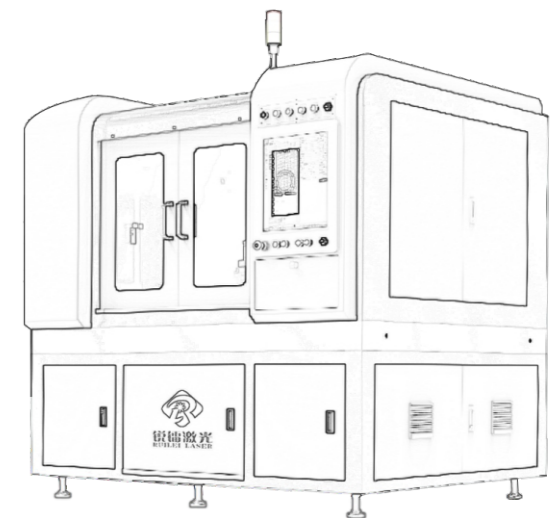
产品特点 Product Features

- 01 高效切割，高精度切割，材料利用率高。
Efficient cutting, high precision cutting, high material utilization.
- 02 可扩展性强，灵活度高，占地面积小。
Strong expansibility, high flexibility, small footprint.

产品应用 Product Application

适用于薄钢板、不锈钢、铜板、铝板等材料的精密切割。应用于首饰，眼镜，灯饰，厨卫产品，手机通讯，数码产品，电子元件，钟表，电脑配件，仪器仪表，精密器件等。

It is suitable for precision cutting of thin steel plate, stainless steel, copper plate, aluminum plate and other materials. Used in jewelry, glasses, lighting, kitchen products, mobile communication, digital products, electronic components, clocks and watches, computer accessories, instruments, precision devices, etc.

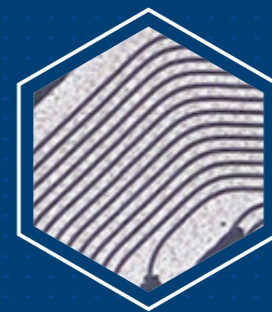
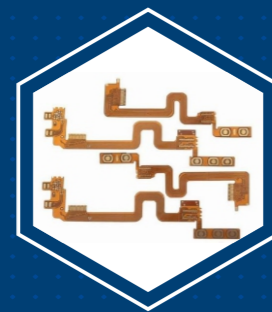
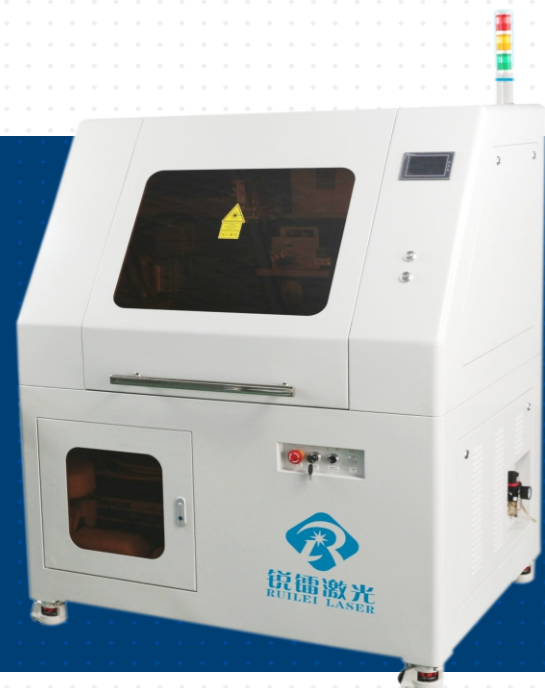


ULTRAVIOLET LASER CUTTING MACHINE

紫外激光切割机

► 技术参数 Technical Parameter

机器型号 Machine Model	RL- PMC2000
激光器功率 Laser power	10W/20W
激光波长 Laser Line	355nm
工作频率 Operating frequency	20-100KHZ
工作范围 Working range	100*100mm (可选choosable)
重复定位精度 Repeated positioning accuracy	± 0.02mm
控制系统 Control system	PC
监控系统 Monitoring system	红光 / CCD
整机耗电功率 Total power	1KW / 1.5KW
电力需求 Power demand	220V/5A 50/60HZ
外形尺寸 Boundary dimension	750*800*1300mm



产品介绍 Product Introduction

紫外切割机搭载国际一流品牌的紫外激光器，为用户提供简便、快速、无耗材、非接触式、非机械式、高精度的任意形状的划线、半切割、切割等解决方案，满足严苛的制造要求，适合量产和加工工艺的飞速变化。

Uv cutting machine equipped with international first-class brand of UV laser, to provide users with simple, fast, non-consumable, non-contact, non-mechanical, high-precision arbitrary shape of the marking, half cutting, cutting and other solutions to meet the stringent manufacturing requirements, suitable for mass production and the rapid change of processing technology.

产品特点 Product Features

01

无需开模即可按CAD图档切割任意外形产品，缩短生产周期，解放人力资源。高精度、低漂移的振镜与伺服系统平台结合带来卓越的微米量级切割精度。无应力切割模式与全自动CCD定位系统有机结合带来完美的切割效果。绿色环保的切割制程有效的避免了对操作人员的危害及对环境的污染。

It can cut any shape product according to CAD drawing without opening mold, shorten the production cycle and liberate human resources. The combination of high-precision, low-drift galvanometer and servo system platform results in excellent micron level cutting accuracy. The combination of stress-free cutting mode and automatic CCD positioning system brings perfect cutting effect. The green cutting process effectively avoids the harm to the operator and the pollution to the environment.

02

引进德国最先进的激光切割技术。光路优化使得激光光斑聚焦小于20 μm。输出脉冲宽度 < 20ns，脉冲峰值功率高，可连续稳定工作，切割时不易在柔性电路板边缘留下焦痕，提高整体加工效率。

The introduction of Germany's most advanced laser cutting technology. The optical path optimization makes the laser spot focus less than 20 μm. The output pulse width is less than 20ns, the peak pulse power is high, and it can work continuously and stably. It is not easy to leave coke marks on the edge of the flexible circuit board when cutting, so as to improve the overall processing efficiency.

03

专业切割软件可以在 Windows 上运行，中文界面，功能齐全。多种切割模式支持分层、选取等多样化切割方式。强大图档处理支持分图加工，阵列加工以及图档平移、旋转、缩放。精准平台控制支持CCD自动聚集、自动对位、自动调整Z轴高度。

Professional cutting software can run on Windows, Chinese interface, complete functions. A variety of cutting modes support layering, selection and other diverse cutting methods. Powerful file processing support sub-map processing, array processing and file translation, rotation, scaling. Precise platform control supports CCD automatic gathering, automatic alignment and automatic adjustment of Z-axis height.

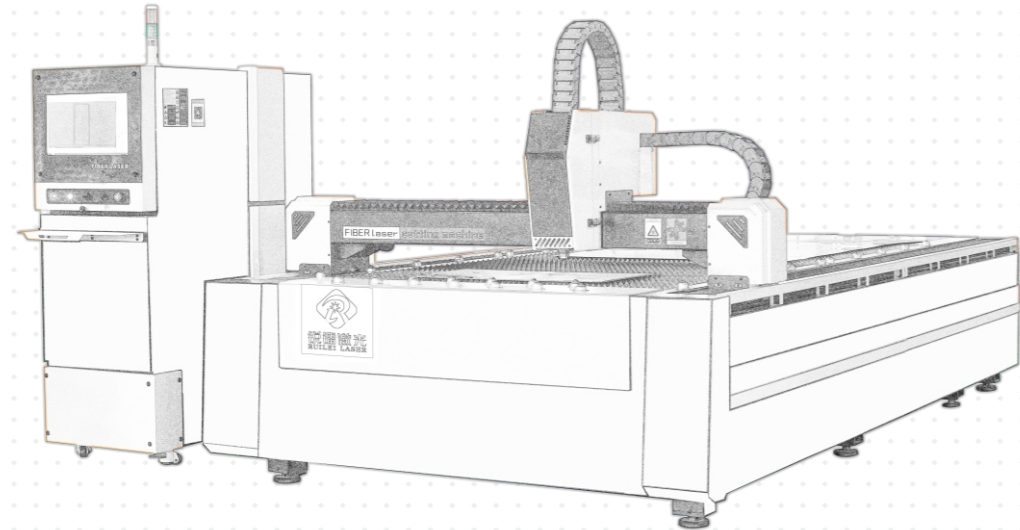
产品应用 Product Application

应用在3C行业生产中的多个领域，包括FPC外型切割、轮廓切割、钻孔、覆盖膜开窗口、软硬结合板揭盖和修边、手机壳切割、高分子材料切割、手机摄像头分板、脆性材料切割，PCB外形切割等等。

It is used in many fields of 3C industry production, including FPC shape cutting, contour cutting, drilling, covering film window opening, soft and hard bonding board uncovering and trimming, mobile phone shell cutting, polymer material cutting, mobile phone camera splitting board, brittle material cutting, PCB shape cutting and so on.

SINGLE TABLE LASER CUTTING MACHINE

单台面激光切割机



► 技术参数 Technical Parameter

机器型号 Machine Model	RL- CF 3015/4015/4020/6015/6020/6025
最大功率 Laser power	1500W、200W、3000W、4000W、6000W-12000W
激光波长 Laser Line	1064nm
工作行程 Operating stroke	6100*2050mm
工作幅面 Width of work	3015, 4015, 4020, 6015, 6020, 8025
X轴行程 X axis stroke	2050mm
Y轴行程 Y axis stroke	6100mm
最大联动速度 Maximum linkage speed	80m/min
最大加速度 Maximum acceleration	1.5G
X/Y轴定位精度 X/Y axis positioning accuracy	± 0.05mm
X/Y轴重复定位精度 X/Y axis repeat positioning accuracy	± 0.03mm
切割材料厚度 Thickness of cutting material	0.2-20mm (视材料而定 It depends on the material)
最大载重 Maximum load	1200kg
机重 Machine weight	5500kg
电量需求 Electricity demand	380V <=25kw 50Hz/60Hz
外观尺寸 External dimension	7500*3050*1700mm

产品介绍 Product Introduction

该机采用具有国际先进技术的锐科光纤激光器，配备高精进口斜齿齿轮齿条，安川伺服电机，集合而成的精密数控光纤激光切割机，传动平稳，精度高。床身与移动梁均采用整体焊接结构，按照大型机床标准制造，淬火后进行粗加工，再进行振动时效处理，可以完全消除焊接及加工的应力。

This machine adopts RAYCUS fiber laser with international advanced technology, equipped with high-precision imported helical tooth rack and pinion, Yaskawa servo motor, a collection of precision numerical control fiber laser cutting machine, smooth transmission, high precision. The whole welding structure of the bed and the moving beam are adopted, which are manufactured according to the standard of large machine tools. The rough processing after quenching and vibration aging treatment can completely eliminate the stress of welding and processing.

产品特点 Product Features

- 01 高性能光纤激光器，性能稳定使用寿命达100000小时。
High performance fiber laser, stable performance service life of 100000 hours.
- 02 板焊床身、退火去应力处理、龙门精铣加工而成，高刚性高稳定性。
Plate welding bed, annealing stress treatment, gantry precision milling processing, high rigidity and high stability.
- 03 数控双驱保证切割精度，高速高精度，可配置高效除尘设备，环保系数更高。
CNC double drive to ensure cutting precision, high speed and high precision, configurable efficient dust removal equipment, higher environmental protection factor.

产品应用 Product Application

适用于金属切割、电气制造、电梯制造、仓储物流设备、厨具制造、工具加工等多种机械制造加工行业，适合切割碳钢、不锈钢、铝合金、铜合金、镀锌板等各种金属材料的加工。

Suitable for metal cutting, electrical manufacturing, elevator manufacturing, warehousing logistics equipment, kitchenware manufacturing, tool processing and other mechanical manufacturing and processing industries, suitable for cutting carbon steel, stainless steel, aluminum alloy, copper alloy, galvanized sheet and other metal materials processing.

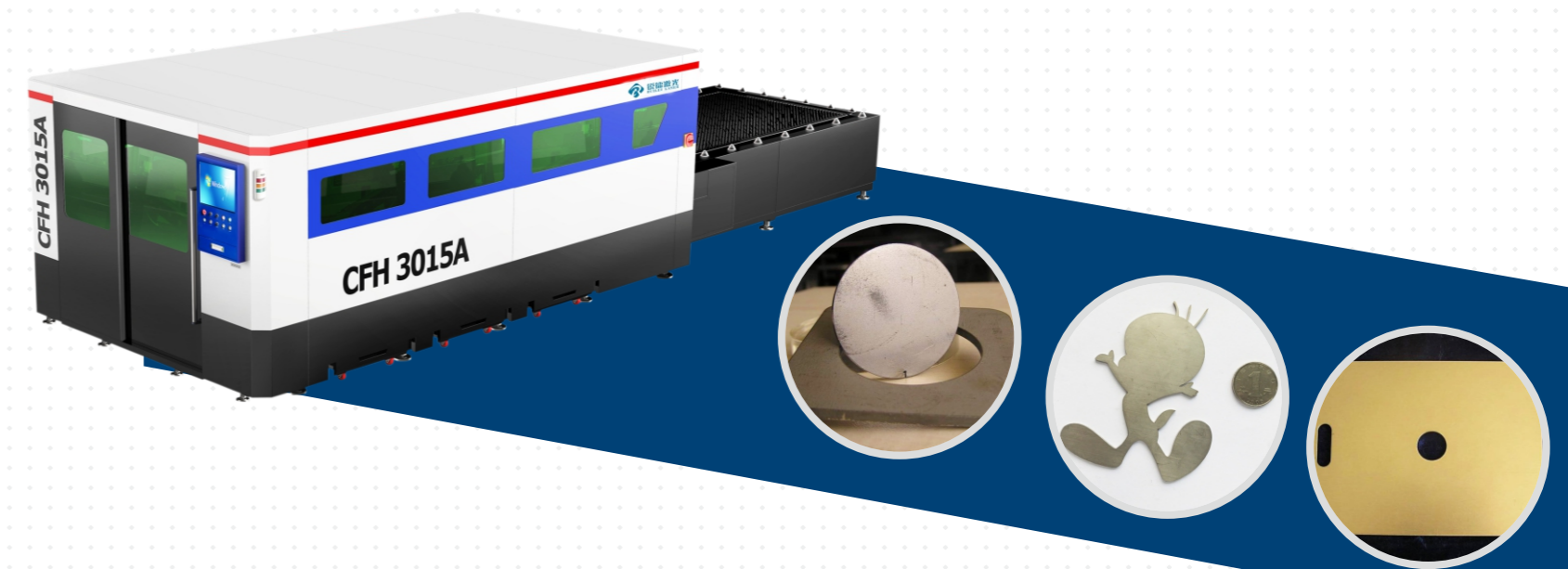


FULL SURROUND LASER CUTTING MACHINE

全包围激光切割机

▶ 技术参数 Technical Parameter

机器型号 Machine Model	RL- CHF 3015/4015/4020/6015/6020/6025
最大功率 Laser power	1500W、200W、3000W、4000W、6000W-12000W
激光波长 Laser Line	1064nm
工作行程 Operating stroke	6100*2050mm
工作幅面 Width of work	3015, 4015, 4020, 6015, 6020, 8025
X轴行程 X axis stroke	2050mm
Y轴行程 Y axis stroke	6100mm
最大联动速度 Maximum linkage speed	80m/min
最大加速度 Maximum acceleration	1.5G
X/Y轴定位精度 X/Y axis positioning accuracy	± 0.05mm
X/Y轴重复定位精度 X/Y axis repeat positioning accuracy	± 0.03mm
切割材料厚度 Thickness of cutting material	0.2-20mm (视材料而定 It depends on the material)
最大载重 Maximum load	1500kg
机重 Machine weight	9500kg
电量需求 Electricity demand	380V <=25kw 50Hz/60Hz
外观尺寸 External dimension	14500*3350*1900mm



产品介绍 Product Introduction

是采用具有国际先进技术的锐科光纤激光器，配备高精密进口斜齿齿轮齿条，安川伺服电机，集合而成的精密数控光纤激光切割机，主要用于碳钢板、不锈钢板、铝合金等金属材料的切割和成形。具有高速、高精度、高效率、高性价比等特点。

It is a precision CNC fiber laser cutting machine, which is composed of Raycus fiber laser laser with international advanced technology, high precision imported helical tooth rack and pinion, Yaskawa servo motor, and is mainly used for cutting and forming of carbon steel plate, stainless steel plate, aluminum alloy and other metal materials. It has the characteristics of high speed, high precision, high efficiency and high cost performance.

产品特点 Product Features

- 01 采用国际领先进口激光器，性能稳定，品质保证。
Using international leading imported laser, stable performance, quality assurance.
- 02 整机采用全包围设计，操作安全，减少激光辐射。
The whole machine adopts the full enclosing design, the operation safety, reduces the laser radiation.
- 03 交换式工作平台，自动送下料，节省操作时间，提高生产效率。
Switching work platform, automatic feeding, saving operation time, improve production efficiency.

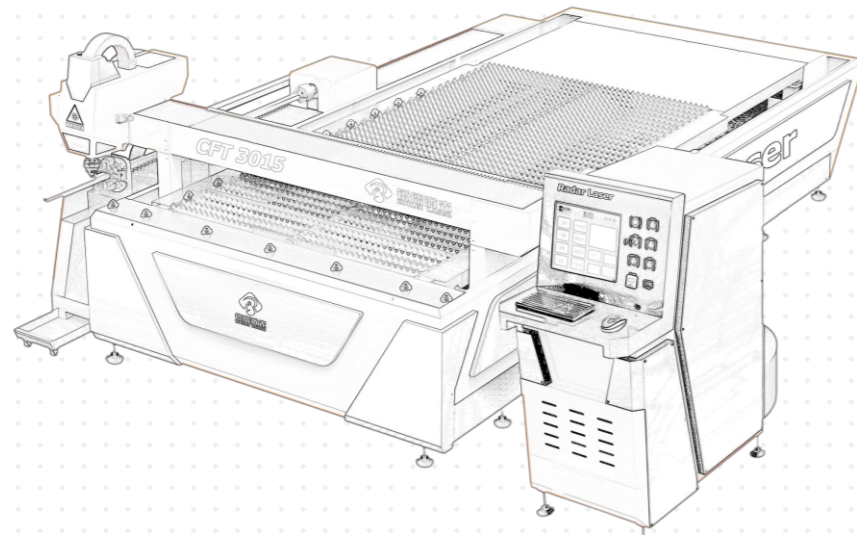
产品应用 Product Application

适用于金属切割、电气制造、电梯制造、仓储物流设备、厨具制造、工具加工等多种机械制造加工行业。

Suitable for metal cutting, electrical manufacturing, elevator manufacturing, warehousing logistics equipment, kitchenware manufacturing, tool processing and other mechanical manufacturing and processing industries.

TUBE SHEET INTEGRATED LASER CUTTING MACHINE

管板一体激光切割机



► 技术参数 Technical Parameter

机器型号 Machine Model	RL- CFT 3015/4020/6020
最大功率 Laser power	1500W、200W、3000W、4000W、6000W
激光波长 Laser Line	1064nm
工作幅面 Width of work	3015, 4020, 6020
X轴行程 X axis stroke	1550mm
Y轴行程 Y axis stroke	3100mm
最大联动速度 Maximum linkage speed	80m/min
X/Y轴定位精度 X/Y axis positioning accuracy	± 0.05mm
X/Y轴重复定位精度 X/Y axis repeat positioning accuracy	± 0.03mm
工作台最大载重 Maximum load of worktable	800kg
电源额定电压 Rated voltage of power supply	380V
频率 Frequency	50Hz
总电源防护等级 Total power protection level	IP54
整机装机容量 Total installed capacity	15KVA
整机装机重量 Weight of the whole machine	5500KG
外观尺寸 External dimension	4915*3038*1458mm

产品介绍 Product Introduction

该机不仅可以减小占地空间，还能减少投入成本，是具有板材和管材双切割需求用户的理想选择，采用先进品牌光纤激光器和电子元器件，保证设备的稳定性，立切割管材装置，提供板材和管材的双切割功能。

The machine can not only reduce the occupied space, but also reduce the input cost, is an ideal choice for users with plate and pipe double cutting demand, the use of advanced brand fiber laser and electronic components, to ensure the stability of the equipment, vertical cutting pipe device, to provide plate and pipe double cutting function.

产品特点 Product Features

- 01** 大幅面工作台设计，适合大尺寸板材切割。
Large format table design, suitable for large size plate cutting.
- 02** 管材板材切割两用，节省投资成本，性价比高。
Pipe plate cutting dual-use, saving investment costs, high cost performance.
- 03** 采用进口原装松下伺服驱动，高精密齿轮齿条，传动平稳，精度高。
Imported Panasonic servo drive, high precision rack and pinion, smooth transmission, high precision.

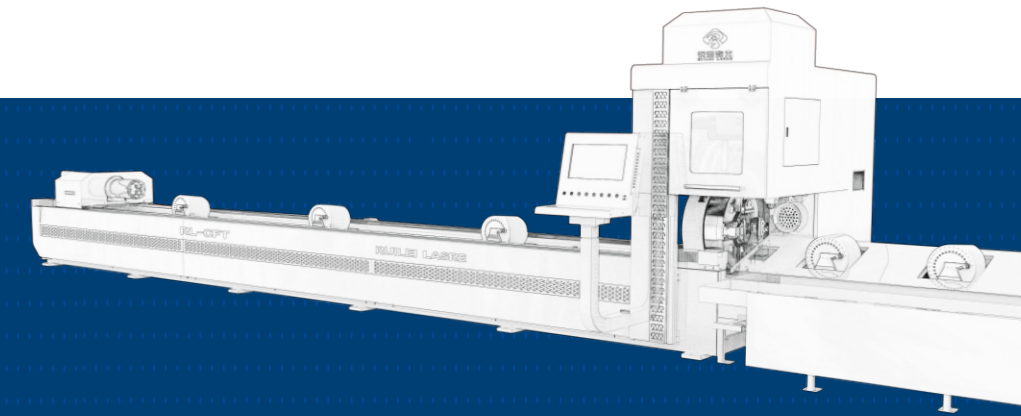
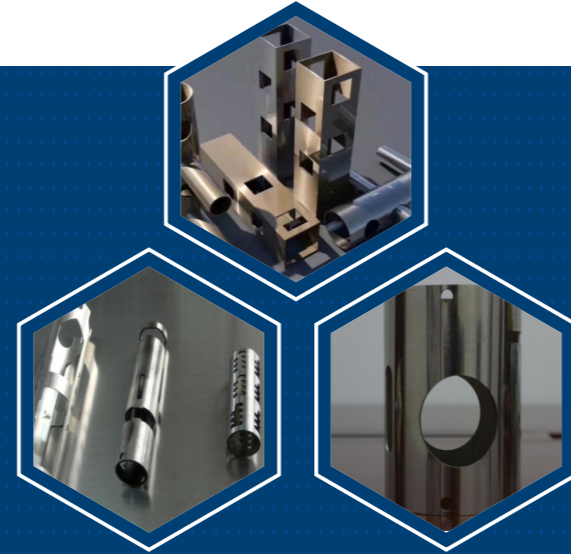
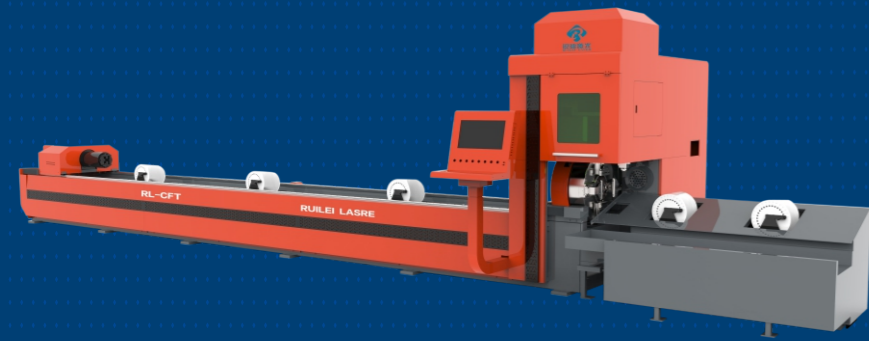
产品应用 Product Application

适用于金属切割、电气制造、电梯制造、仓储物流设备、厨具制造、工具加工等多种机械制造加工行业。

Suitable for metal cutting, electrical manufacturing, elevator manufacturing, warehousing logistics equipment,

PROFESSIONAL LASER PIPE CUTTING MACHINE

专业激光切管机



产品介绍 Product Introduction

光纤切管机优势，可快速，高质量的对圆管、方管、矩形管以及异型管等型材进行切割，相对于传统切割的优势，柔性好，无需开模，极大的节省新产品开发时间；速度快、精度高，可实现管材开孔、断切、相贯线及常规方式难以实现的各种异型复杂图形的精密切割；一次成型，节约成本，提高效率。

Optical fiber pipe cutting machine advantages, can quickly, high quality of the round tube, square tube, rectangular tube and special tube and other profiles for cutting, compared with the traditional cutting advantages, good flexibility, no need to open the mold, greatly saving new product development time; Fast speed, high precision, can achieve pipe opening, broken cutting, intersecting lines and conventional methods difficult to achieve a variety of complex shapes of precision cutting; One molding, cost saving, improve efficiency.

► 技术参数 Technical Parameter

机器型号 Machine Model	RL-CFT 1500/2000/3000/4000
激光波长 Laser Line	1064nm
激光最大功率 Laser power	1500W/2000W/3000W/4000W
加工范围 Processing range	圆管直径 ϕ 30- ϕ 350 (可选配)
X轴行程 X axis stroke	6000mm
X/Y 轴最大联动速度 Maximum linkage speed of X/Y axis	30m/min
数控系统 CNC System	上海交大切割系统 (Shanghai Jiaotong University cutting system)
圆管最大载重 Maximum load of round pipe	80kg-800kg
总电源相数 Total number of power supply phases	3
电源额定电压 Rated voltage of power supply	380V
频率 Frequency	50Hz
总电源防护等级 Total power protection level	IP54
整机装机容量 Total installed capacity	10KVA
床身尺寸 Size of bed	8500*3000*1700mm

产品特点 Product Features

自定心中空电动卡盘组件：通过气动方式实现2组滚轮对边夹紧，误差小于0.2mm，电动卡盘能卡直径 ϕ 30- ϕ 200的管材（可选配）。气动卡盘夹紧圆管后整体转动圆管，组件整体前后移动输送圆管，圆管切割完成后松开气动卡盘，组件整体后移重新至指定位置后重新夹紧圆管开始切割。

Self-centering hollow electric chuck assembly: through the pneumatic way to achieve two sets of roller side clamping, the error is less than 0.2mm, the electric chuck can card the diameter of ϕ 30- ϕ 200 pipe (optional). After the pneumatic chuck clamping the round tube, the whole round tube is rotated, and the whole component is moved back and forth to deliver the round tube. After the round tube is cut, the pneumatic chuck is released, and the whole component is moved back to the specified position, and the round tube is clamped again and the cutting is started.

产品应用 Product Application

应用于健身器材、智能家具、石油管道、客车制造、工程机械、货架货柜、农林机械、云梯护栏、家用电器制造、激光对外加工服务等各种机械制造或管材加工行业的矩形管、圆管、椭圆管、OB管、角铁、槽钢等金属管件、型材的切割。

Used in fitness equipment, intelligent furniture, oil pipeline, bus manufacturing, engineering machinery, shelves and containers, agricultural and forestry machinery, ladder fence, household appliances manufacturing, laser external processing services and other mechanical manufacturing or pipe processing industry of rectangular pipe, round pipe, oval pipe, OB pipe, Angle iron, channel steel and other metal pipe fittings, cutting profile.

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